Sanitized Copy Approved for Release 2011/02/15 : CIA-RDP82-00457R009500250010-3 LCARY CLASSIFICATION - U.S. OPPENIALS ONE SECURITY INFORMATION REPORT CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT 50X1-HUM CD NO. DATE DISTR 13 Dec. 1951 COUNTRY Germany (Russian Zone) NO. OF PAGES Ground Station and Receiver for Control of SUBJECT the Wasserfall Guided Missile NO. OF ENCLS. 3 PLACE **ACQUIRED** 50X1-HUM DATE OF CIRCULATE INFO. THIS DOCUSERT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFCHEE OF THE UNITED STATES, WITHIN THE MEANING OF TILE 19. SECTIONS 7.93 AND 794, OF THE 19. CODE, AS ADDROBD. ITS TRANSMISSION OR REVEL-ATION OF ITS CONTENTS TO OR RECEIPT BY AN UNAUTHORIZED PERSON ITS PROMISED BY LAW THE REPORT OF THIS FORM IS PROMISED. THIS IS UNEVALUATED INFORMATION Order for ground stations In the beginning of June 1951, the management of RFT Köpenick was 50X1-HUM expecting an order from the USSR to build 100 ground stations for guided missiles.* 2. Assembly of the Strasburg receiver After the end of May 1951, when 1700 complete Strasburg receivers had been assembled by AFT Köpenick for delivery to the USSR, no additional complete receivers were assembled at this plant*. Since that date, only the separate parts of the receiver have been exported to the USCR for assembly. 3. Russian officials concerned with the program 50X1-HUM a. One fmu Soloev acts at RFT Köpenick as control and acceptance official for the Strasburg receivers. He has no military rank. He is technically well informed on the details of the Wasserfall guided missile. b. The Russian in charge of the Wasserfall guided missile project in the USSR is one fnu Kapirin, a Stalin Prize winner. He always wears civilian clothes. He has visited Berlin at various times. It is thought that it is he who will bring a decision from the USSR to Köpenick about the building of the ground stations (see paragraph 1). 4. Details of the ground station

a. Modulation, etc.

Besides the stages given below, there are the frequency doubling stage with 1 x IS-50 tube and a power stage with 2 x IS-50 tubes. The various stages are in separate containers connected with the power supply. The degree of modulation is 40%, with a peak output of 120 w and 40 w (sic). The transmitter is grid modulated.

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CENTRAL INTELLIGENCE AGENCY

b. Modulation unit

Nine different sinusoidal control frequencies are produced in this unit. One of these is 200 $\rm H_Z$ for the firing command (Zündkommando); the other eight frequencies are used in four selected ways.

c. Multivibrator

This vibrates at $5~\rm H_Z$ or $25~\rm H_Z$, as selected. In this way it is possible to operate the rudder (Seitensteuerung) with $5~\rm H_Z$ and the elevators (Höhensteuerung) with 25 $\rm H_{2}$ or vice versa with the one frequency.

d. Indicator unit

Here, are recorded readings of the command value (Kommandowert) on a scale of 0.3-0.0, and also the modulator voltage and the degree of

e. Control column (Knuppel)

See the attached diagram and the errors determined, which are listed at the end of this report.

f. Antenna

It has a cross-dipole with "Symmetrietopf der Sender unsymmetrischen

g. Balanced antenna (Kanstliche Antenne)

This is switched in by means of the S.E. switch.

h. Control receiver

Similar to ground station receiver, but it has only the LF part, with 9 LF circuits. (See b above)

i. Target indicator (Taurechner)

This is contained in a comparatively large box with the equivalent circuit resistance (see diagram),

Control Column (Knuppel)

Table of Errors

Kommando u. Ersatzgeber	H F Seite	H F Hoehe	N F Seite	N F Hoehe
0 -0.4 -0.8 +0.4 +0.8	0 -0.37;; -0.80;; +0.32;; +0.71;;	0 0.39% -0.82% +0.38% +0.80%	+0.48% -0.39% -0.81% +0.37% 0.76%	+0.42 +0.42 -0.43 +0.43 +0.43 +0.43

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Comment: Concerns in Berlin-Köpenick under VVB RFT, as of 1 January 1951, included the Funkwerk Köpenick and the Zentrallaboratorium für Signal- und Sonderanlagen Köpenick, both located at Wendenschloss-Strasse 154-158; 50X1-HUM the two concerns were consoli-

dated as of 1 June 1951. Strasburg airborne receivers were previously reported to be ascembled at the Zentrallaboratorium für Signal- und Sonderanlagen; 50X1-HUM

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